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No. VI.

DAILY OBSERVATIONS ON THE WEATHER,
AND ON
THE RISE AND FALL OF THE SHANNON,
DURING THE YEARS 1846, 1847, AND 1848,
MADE AT A THLONE.

BY
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PRESENTED TO THE ACADEMY
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CHAIRMAN OF THE BOARD OF WORKS,
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VOL IV.

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ABSTRACT

Of accompanying Digests made at Athlone, on the Fall of Rain, Rise and Fall of the Shannon, and Direction of the Wind, during the Years 1845, 1846, 1847, and 1848.

YEARS.	RAIN.							RIVER SHANNON.				WIND.																
	Quantity which fell each year.			Greatest Fall in one successive Day and Night.	Number of Days without Rain.	Greatest Number of successive Days		Total Rise and Fall of the Shannon during each Year.				Number of Days in which the Wind was																
						With Rain.	Without Rain.	Upper Sill.		Lower Sill.		North.						East.		South E.		South.		South W.		West.		North W.
	Days.	Nights.	Total.	Inches.	Inches.	No.	No.	Ft.	In.	Ft.	In.	Rise.	Fall.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
1845,	14.02	12.97	26.99	1.18	1.17	9	14	14	11	11	8½	18	9	60	20	24	47½	52½	31	41	89							
1846,	14.87	17.50	32.37	1.45	174	15	12	12	8½	15	0½	19	7	58	15	15	56	58	47	47	69							
1847,	12.85	10.65	23.50	0.89	193	11	8	17	2	14	8	22	11½	51	21	22	49	67	39	49	67							
1848,	17.66	15.77	33.43	1.11	165	13	14	17	5½	19	0	24	0	45	27	16	43	67	48	57	63							
Amount for four years,	59.40	56.89	116.29	1.45	709			62	3	60	5	90	10½	214	83	77	195½	244½	165	194	288							
Average for one year,	14.85	14.22½	29.07½		177½			15	6½	15	1½	22	8½	53½	20½	19½	48½	61½	41½	48½	72							

of the Wind during the Year 1845.

Month.	RAIN.						RIVER SHANNON.				WIND.									
	Quantity which fell each Month.			Greatest Fall in one successive Day and Night.	Number of Days without Rain.	Greatest		Total Rise and Fall of the Shannon during each Month.				Number of Days in which the Wind was								
						With Rain.	With- out R.	Upper Sill.		Lower Sill.										
	Days.	Nights.	Total.	Inches.	No.	No.	Ft. In.	Ft. In.	Rise.	Fall.	No.	No.	North.	North E.	East.	South E.	South.	South W.	West.	North W.
January, . . .	1.74	1.45	3.19	.77	7	9	2	2 9	0 9½	Ft. In. 3 11½	Ft. In. 0 8	1	..	1	6½	9½	3	3	7	
February, . . .	0.67	0.58	1.25	.27	11	8	4	0 2	1 1	0 5	1 11½	4	..	1	5	9	1	3	5	
March,	0.56	0.57	1.13	.21	19	4	14	0 8	1 9	0 11½	2 4½	5	8	2	3	2	3	5	3	
April,	0.69	0.57	1.26	.48	22	4	11	0 11	1 11	1 3½	1 10½	5	2	4	8	4	1	1	5	
May,	0.78	0.57	1.35	.48	20	4	9	0 11	0 10	0 6	1 5½	18	2	3	1	..	1	..	6	
June,	1.61	1.37	2.98	1.15	16	4	7	0 11½	1 1½	1 1½	1 8	1	..	1	3	7	4	2	12	
July,	2.11	1.47	3.58	.93	12	7	9	2 5	1 0	2 10½	1 1½	1	3	5	4	1	2	7	8	
August, . . .	0.56	1.73	2.29	.63	17	4	5	0 4½	1 2½	1 2	2 0	10	..	..	..	1	3	..	17
September, . .	0.61	0.83	1.44	.39	16	9	12	0 9	1 2	0 10½	1 6½	5	2	5	7	1	1	4	5	
October, . . .	2.11	1.12	3.23	1.18	13	7	4	2 4½	0 2	4 9	1 3	3	1	..	5	9	2	5	6	
November, . .	1.17	1.13	2.30	.57	16	5	6	0 11½	0 5	2 8½	1 6½	4	2	2	5	3	4	6	4	
December, . .	1.41	1.58	2.99	.47	8	7	3	1 8	0 3	3 8½	1 3½	3	..	..	..	6	6	5	11
Total,	14.02	12.97	26.99	1.18	177			14 11	11 8½	24 4	18 9	60	20	24	47½	52½	31	41	89	

Digest of daily Observations made at Athlone on the Fall of Rain, Rise and Fall of the Shannon, and Direction of the Wind, during the Year 1846.

MONTH.	RAIN.					RIVER SHANNON.					WIND.															
	Quantity which fell each Month.			Greatest Fall in one successive Day and Night.	Number of Days without Rain.	Greatest Number of successive Days		Total Rise and Fall of the Shannon during each Month.					Number of Days in which the Wind was													
	Days.	Nights.	Total.			Rain.	With- out R.	Upper Sill.		Lower Sill.			North.	North E.	East.	South E.	South W.	West.	North W.							
								Rise.	Fall.	Rise.	Fall.	Ft. In.								Ft. In.	Ft. In.	Ft. In.				
	Inches.	Inches.	Inches.	Inches.	No.	No.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	No.	No.	No.	No.	No.	No.	No.	No.	No.							
January, . . .	1.03	1.80	2.83	.30	8	9	0 8½	1 2½	1 7	1 9	..	..	2	1	6	5	11	3						
February, . . .	0.34	0.63	0.97	.17	12	9	0 4	2 0	0 2	3 6	2	1	..	6	4	2	4	9								
March,	1.67	1.85	3.52	.78	11	4	1 3	0 11	1 3	1 10	5	1	..	1	7	2	9	6								
April,	1.62	1.68	3.30	1.00	20	6	0 10	0 10	1 10	2 2	9	3	1	5	4	1	1	6								
May,	0.79	0.61	1.40	.33	17	8	0 4	1 7	0 1	2 1	6	..	2	2	6	2	5	8								
June,	1.30	1.30	2.60	.70	20	4	0 6	1 2	0 3½	2 7½	5	1	1	7	7	3	1	5								
July,	1.78	1.93	3.71	.44	12	5	1 5	0 11	1 3	0 10	1	2	1	3	3	6	9	6								
August,	2.54	2.52	5.06	1.45	14	10	2 4½	0 6½	5 6½	1 9½	10	1	2	5	2	1	5	5								
September, . .	0.24	0.80	1.04	.43	19	12	0 2	2 4	0 3	2 11	..	2	2	8	7	3	5	3								
October,	1.64	2.26	3.90	.72	9	4	2 5	0 10	3 10	0 9	7	2	2	3	4	7	1	5								
November, . . .	1.47	1.53	3.00	.61	14	9	1 11	0 9	2 11	1 0	4	1	3	8	7	3	..	4								
December, . . .	0.45	0.59	1.04	.26	18	7	0 5½	1 11½	0 7	2 9	9	1	..	..	2	6	4	9						
Total,	14.87	17.50	32.37	1.45	174	10	12 8½	15 0½	19 7	24 0	58	15	15	56	58	47	47	69								

of the Wind, during the Year 1847.

MONTH.	RAIN.						RIVER SHANNON.				WIND.								
	Quantity which fell each Month.			Greatest Fall in one successive Day and Night.	Number of Days without Rain.	With Rain.	With successive Days out R.	Total Rise and Fall of the Shannon during each Month.				Number of Days in which the Wind was							
								Upper Sill.		Lower Sill.		North.	North E.	South.	South W.	West.	North W.		
	Rise.	Fall.	Rise.	Fall.															
	Days.	Nights.	Total.	Inches.	Inches.	No.	No.	No.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	No.	No.	No.	No.	No.	No.	No.
January, . . .	0.85	0.98	1.83	.54	14	7	3	1 4	1 1	2 3	1 5	2	1	3	9	8	4	2	
February, . . .	1.25	0.96	2.21	.49	11	11	5	1 1	0 6	2 6	2 3	4	1	1	4	3	4	6	
March,	0.01	0.31	0.32	.08	18	4	8	0 4	2 7	0 1	3 3	6	4	4	5	7	1	2	
April,	0.55	0.33	0.88	.11	8	9	2	1 2½	0 11	0 10	1 11	8	1	1	..	3	1	6	
May,	1.96	1.14	3.10	.71	11	10	4	2 5	0 8½	4 6	1 5	1	1	..	11	7	8	..	
June,	0.83	0.55	1.38	.28	16	6	8	0 1	2 6	0 3	3 1	7	2	1	2	2	4	2	
July,	0.79	0.14	0.93	.31	19	6	5	0 10½	1 1½	0 5	2 4	6	1	1	2	6	3	6	
August,	0.43	0.97	1.40	.45	20	4	8	0 11	1 6	0 10½	1 4½	8	..	2	..	3	3	6	
September, . .	1.10	0.69	1.79	.66	16	6	8	1 3	1 0	1 2	1 4	4	..	2	..	3	4	7	
October,* . . .	0.01	0.31	0.32	.08	18	4	8	1 9	0 8	2 8	0 6	..	6	4	3	8	4	4	
November, . .	2.47	1.22	3.69	.85	17	4	6	3 1	0 11	4 0½	0 11½	3	1	..	3	14	2	3	
December, . .	2.60	3.05	5.65	.89	14	5	3	2 10	1 2	3 4½	1 3½	2	3	3	10	3	1	2	
Total,	12.85	10.65	23.50	.89	193			17 2	14 8	22 11½	21 1½	51	21	22	49	67	39	49	

* An accidental circumstance prevented the Rain Gauge Registry being kept in October, but the month was dry throughout, and the figures are assumed to be the same as occurred in March.

Digest of daily Observations made at ATHLONE, on the Fall of Rain, Rise and Fall of the Shannon, and Direction of the Wind, during the Year 1848.

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MONTH.	RAIN.				RIVER SHANNON.										WIND.									
	Quantity which fell each Month.				Greatest Fall in one successive Day and Night.	Number of Days without Rain.	Greatest Number of successive Days with Rain.	Total Rise and Fall of the Shannon during each Month.				Number of Days in which the Wind was												
	Days.	Nights.	Total.	Inches.				Upper Sill.		Lower Sill.		North.	North E.	East.	South E.	South.	South W.	West.	North W.					
					Rise.	Fall.	Rise.	Fall.																
January, . . .	Inches. 1.20	Inches. 0.95	Inches. 2.15	Inches. .29	No. 12	No. 3	No. 5	Ft. In. 0 2½	Ft. In. 2 9	Ft. In. 0 3	Ft. In. 4 10	No. 4	No. 2	No. 6	No. 4	No. 2	No. 1	No. 8						
February, . . .	2.95	2.41	5.36	.71	8	12	2	3 3	1 2	4 11	0 9	..	..	..	7	7	8	7			
March,	2.04	1.23	3.27	.68	8	13	3	0 10½	2 3½	0 6	3 3	6	4	1	6	3	2	8						
April,	1.45	1.11	2.56	.65	17	6	6	0 6	1 7	1 6	3 10	8	2	..	4	3	3	7						
May,	0.67	0.28	0.95	.31	21	4	9	0 1½	1 6½	..	2 11	3	..	3	4	9	6	3						
June,	0.44	1.07	1.51	.22	13	5	5	0 8	0 8	1 0	1 2	2	3	2	8	4	5	4						
July,	1.17	2.24	3.41	.77	14	8	8	1 5	1 2	2 2	1 7½	6	2	1	2	2	8	3						
August,	3.25	2.09	5.34	1.11	8	11	2	3 0	0 11½	3 4	0 10	1	1	2	4	2	10	8						
September, . .	1.08	1.84	2.92	.85	16	3	3	0 7	1 8½	0 7	2 1½	4	3	..	6	3	7	4						
October, . . .	1.94	1.47	3.41	.96	17	4	6	2 0	1 3	3 0	0 3	6	6	1	4	5	4	1						
November, . .	0.97	0.55	1.52	.52	17	8	14	2 4	1 9	2 0	2 1	5	4	..	6	2	4	9						
December, . .	0.50	0.53	1.03	.29	19	4	7	2 6	2 2	4 9	3 8	..	..	2	10	12	3	1				
Total,	17.66	15.77	33.43	1.11	165			17 5½	19 0	24 0	27 4	45	27	16	67	48	57	63						